

Module Information

2022.01, Approved

Summary Information

Module Code	5104BCBMOL
Formal Module Title	Structural and Functional Biochemistry
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	26
Online	8
Practical	9
Workshop	9

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To develop a deeper understanding of structural and functional aspects of macromolecules, particularly proteins, in biology.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Analyse and summarise information from research papers and/or practicals
MLO2	2	Explain the principal structural and functional characteristics of macromolecules
MLO3	3	Demonstrate an understanding of the important aspects of regulation and synthesis of macromolecules

Module Content

Outline Syllabus	1) Purification techniques, 2) Detection techniques and Monitoring procedures 3) Analysis techniques 4) Glycan structural diversity 5) Glycan structure to function 6) Mechanisms of protein regulation 7) Structure-function relationships.
Module Overview	This module enables you to develop a deeper understanding of structural and functional aspects of macromolecules, particularly proteins, in biology. The module provides you with a detailed view of aspects of the structure and function of macromolecules and relationships between the two.
Additional Information	The module provides a detailed view of aspects of the structure and function of macromolecules and relationships between the two. Mathematical procedures and chemical formulae are used but not extensively. Students will gain skills in analysing experimental data and comprehending primary literature.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Data/literature analysis	50	0	MLO1
Centralised Exam	Examination	50	2	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Andrew Powell	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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